

Tables & Lists

Organized Data

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What's a table for?

Two-dimensional data

Not for page layout

Table: The Fighter

Level	Base Attack Bonus	Fort Save	Ref Save	Will Save	Special
1st	+1	+2	+0	+0	Bonus feat
2nd	+2	+3	+0	+0	Bonus feat
3rd	+3	+3	+1	+1	
4th	+4	+4	+1	+1	Bonus feat
5th	+5	+4	+1	+1	
6th	+6/+1	+5	+2	+2	Bonus feat
7th	+7/+2	+5	+2	+2	
8th	+8/+3	+6	+2	+2	Bonus feat
9th	+9/+4	+6	+3	+3	
10th	+10/+5	+7	+3	+3	Bonus feat

This is a legit use of a table

LOVECRAFT & LAYOUTS

HTML <table>

Hello, 1997!

At the Mountains of Madness

I am forced into speech because men of science have refused to follow my advice without knowing why. It is altogether against my will that I tell my reasons for opposing this contemplated invasion of the antarctic—with its vast fossil-hunt and its wholesale boring and melting of the ancient ice-cap—and I am the more reluctant because my warning may be in vain. Doubt of the real facts, as I must reveal them, is inevitable; yet if I suppressed what will seem extravagant and incredible there would be nothing left. The hitherto withheld photographs, both ordinary and aërial, will count in my favour; for they are damnably vivid and graphic. Still, they will be doubted because of the great lengths to which clever fakery can be carried. The ink drawings, of course, will be jeered at as obvious impostures; notwithstanding a strangeness of technique which art experts ought to remark and puzzle over.

In the end I must rely on the judgment and standing of the few scientific leaders who have, on the one hand, sufficient independence of thought to weigh my data on its own hideously convincing merits or in the light of certain primordial and highly baffling myth-cycles; and on the other hand, sufficient influence to deter the exploring world in general from any rash and overambitious programme in the region of those mountains of madness. It is an unfortunate fact that relatively

H.P. Lovecraft

Howard Phillips Lovecraft (August 20, 1890 – March 15, 1937) was an American author who achieved posthumous fame through his influential works of horror fiction. Virtually unknown and only published in pulp magazines before he died in poverty, he is now regarded as one of the most significant 20th-century authors in his genre. Lovecraft was born in Providence, Rhode Island, where he spent most of his life. His father was confined to a mental institution when

LOVECRAFT & LAYOUTS

HTML <table>

At the Mountains of Madness

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In the end I must rely on the judgment and standing of the few scientific leaders who have, on the one hand, sufficient independence of thought to weigh my data on its own hideously convincing merits or in the light of certain primordial and highly baffling myth-cycles; and on the other hand, sufficient influence to deter the exploring world in general from any rash and overambitious programme in the region of those mountains of madness. It is an unfortunate fact that relatively obscure men like myself and my associates, connected only with a small university, have little chance of making an impression where matters of a wildly bizarre or highly controversial nature are concerned.

It is further against us that we are not, in the strictest sense, specialists in the fields which came

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Deprecations & Removals

HTML5 *deprecates* certain table attributes

`axis` & `abbr` on `<td>` & `<th>`

`scope` on `<td>`

`summary` on `<table>`

HTML5 *removes* certain table attributes

`align` on `<caption>`, `<table>`, `<col>`, `<colgroup>`,
`<tbody>`, `<td>`, `<tfoot>`, `<th>`, `<thead>`, & `<tr>`

`valign` on `<col>`, `<colgroup>`, `<tbody>`, `<td>`, `<tfoot>`,
`<th>`, `<thead>`, & `<tr>`

height on <td> & <th>

width on <table>, <td>, <th>, <col>, & <colgroup>

cellpadding & cellspacing on <table>

nowrap on <td> & <th>

bgcolor on <table>, <tr>, <td>, & <th>

char & charoff on <col>, <colgroup>, <tbody>, <td>, <tfoot>, <th>, <thead>, <tr>

frame on <table>

rules on <table>

Basic Tables

<table>

<tr>

<th>

<td>

colspan & rowspan attributes

`<table>`

Creates *table box*

Useless by itself

By default, `<table>`s fit themselves to their content

Optional children: `<caption>`, `<colgroup>`, `<thead>`,
`<tbody>`, `<tfoot>`

Required child: `<tr>` (unless it's inside `<thead>`, `<tbody>`, or
`<tfoot>`)

`<tr>`

Creates *table row* box of cells

Children must be `<th>` or `<td>`

<th>

Table header for a group of cells below or to side

By default, browsers do the following to text:

- » bold
- » horizontally (row) or vertically (column) center

<td>

Table data cell

By default, <td>s fit themselves to their content

⚙️ HTML

1 <h3>Table 1</h3>

2

3 <table>

4 <tr>

5 <th>Header 1.1</th>

6 <th>Header 1.2</th>

7 <th>Header 1.3</th>

8 </tr>

9 <tr>

10 <td>Data 2.1</td>

11 <td>Data 2.2</td>

12 <td>Data 2.3</td>

13 </tr>

14 <tr>

15 <td>Data 3.1</td>

16 <td>Data 3.2</td>

17 <td>Data 3.3</td>

18 </tr>

19 </table>

20

21

22

23 <h3>Table 2</h3>

24

25 <table>

26 <tr>

27 <td></td> <!-- empty cell -->

⚙️ CSS

⚙️ JS

Table 1

Header 1.1	Header 1.2	Header 1.3
Data 2.1	Data 2.2	Data 2.3
Data 3.1	Data 3.2	Data 3.3

Table 2

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

⚙ HTML

20

21

22

23 <h3>Table 2</h3>

24

25 <table>

26 <tr>

27 <td></td> <!-- empty cell -->

28 <th>Header 1.2</th>

29 <th>Header 1.3</th>

30 <th>Header 1.4</th>

31 </tr>

32 <tr>

33 <th>Header 2.1</th>

34 <td>Data 2.2</td>

35 <td>Data 2.3</td>

36 <td>Data 2.4</td>

37 </tr>

38 <tr>

39 <th>Header 3.1</th>

40 <td>Data 3.2</td>

41 <td>Data 3.3</td>

42 <td>Data 3.4</td>

43 </tr>

44 </table>

⚙ CSS

⚙ JS

Table 1

Header 1.1	Header 1.2	Header 1.3
Data 2.1	Data 2.2	Data 2.3
Data 3.1	Data 3.2	Data 3.3

Table 2

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

Both `<td>` & `<th>` can span multiple rows & columns using `colspan` & `rowspan` attributes

`colspan`

Specifies how many columns across the cell extends

`rowspan`

Specifies how many rows down the cell extends

	Header 1.2-3		Header 1.4
Header 2-3.1	Data 2.2	Data 2.3	Data 2.4
	Data 3.2	Data 3.3	Data 3.4
	Footer 4.2	Footer 4.3	Footer 4.4

Defining Sets of Rows

<thead>

<tbody>

<tfoot>

`<thead>`

Specifies *rows that define the head* of the table's columns

Permitted children: `<tr>`

Must come before `<tbody>`, `<tfoot>`, & `<tr>`

Always displayed at the top of the table

`<tbody>`

Specifies *rows that define the body* of the table

You're only permitted 1 `<thead>` & `<tfoot>`, but you can have multiple `<tbody>` elements

Permitted children: `<tr>`

Any `<tr>` not in `<thead>` or `<tfoot>` must be in `<tbody>`

Must come after `<caption>`, `<colgroup>`, & `<thead>`

`<tfoot>`

Specifies *rows that define the summary* of the table's columns

Permitted children: `<tr>`

Can come either after or before `<tbody>`

Always displayed at the bottom of the table

```
1 <table>
2   <thead>
3     <tr>
4       <td></td> <!-- empty cell -->
5       <th>Header 1.2</th>
6       <th>Header 1.3</th>
7     </tr>
8   </thead>
9   <tbody>
10    <tr>
11      <th>Header 2.1</th>
12      <td>Data 2.2</td>
13      <td>Data 2.3</td>
14    </tr>
15    <tr>
16      <th>Header 3.1</th>
17      <td>Data 3.2</td>
18      <td>Data 3.3</td>
19    </tr>
20  </tbody>
21  <tfoot>
22    <tr>
23      <td></td> <!-- empty cell -->
24      <th>Footer 4.2</th>
25      <th>Footer 4.3</th>
26    </tr>
27  </tfoot>
```

	Header 1.2	Header 1.3
Header 2.1	Data 2.2	Data 2.3
Header 3.1	Data 3.2	Data 3.3
	Footer 4.2	Footer 4.3

Table Titles

<caption>

caption-side property

`<caption>`

Title of a table

Must be the child of `<table>`

Only 1 `<caption>` in `<table>`!

```
1 <table>
2   <caption>
3     Table Name
4   </caption>
5   <tr>
6     <th>Header 1.1</th>
7     <th>Header 1.2</th>
8     <th>Header 1.3</th>
9   </tr>
10  <tr>
11    <td>Data 2.1</td>
12    <td>Data 2.2</td>
13    <td>Data 2.3</td>
14  </tr>
15  <tr>
16    <td>Data 3.1</td>
17    <td>Data 3.2</td>
18    <td>Data 3.3</td>
19  </tr>
20 </table>
```

Table Name		
Header 1.1	Header 1.2	Header 1.3
Data 2.1	Data 2.2	Data 2.3
Data 3.1	Data 3.2	Data 3.3

`caption-side`

CSS property that positions `<caption>` on specified side of `<table>`

2 values: `top` (default) or `bottom`

Doesn't matter where you put the `<caption>` in the `<table>`, as `caption-side` will place it when rendered

HTML

```
1 <table>
2   <caption>
3     Table Name
4   </caption>
5   <tr>
6     <th>Header 1.1</th>
7     <th>Header 1.2</th>
8     <th>Header 1.3</th>
9   </tr>
10  <tr>
11    <td>Data 2.1</td>
12    <td>Data 2.2</td>
13    <td>Data 2.3</td>
14  </tr>
15  </table>
```

CSS

```
1 table {
2   margin: 2rem;
3   caption-side: bottom;
4 }
5
6 /* Uninteresting stuff below here */
7
8 th, td {
9   border: 1px solid #333;
10 }
11
12 html {
```

JS

Header 1.1	Header 1.2	Header 1.3
Data 2.1	Data 2.2	Data 2.3
Data 3.1	Data 3.2	Data 3.3

Table Name



PRO TIP

Current design pattern

- » Put `<caption>` on bottom with `caption-side: bottom` (Bootstrap does this for you no matter where you place `<caption>` in your code)
- » Put `<h2>`–`<h6>` heading on top
- » To put all together as a section, wrap in `<section>`

💡 PRO TIP

```
<section>
  <h3>Great Old Ones</h3>
  <table>
    ...
    <caption>
      Ancient, powerful deities from space
    </caption>
  </table>
</section>
```

Styling Tables

empty-cells

border-collapse

border-spacing

table-layout

HTML

1 <table>

2 <thead>

3 <tr>

4 <th>Movie</th>

5 <th>Genre</th>

6 <th>Hero</th>

7 <th>Year</th>

8 </tr>

9 </thead>

10 <tbody>

11 <tr>

12 <td>Die Hard</td>

13 <td>Action</td>

14 <td>John McClane</td>

15 <td>1988</td>

16 </tr>

17 <tr>

18 <td>Star Wars</td>

19 <td>Sci-Fi</td>

20 <td>Luke Skywalker</td>

21 <td>1977</td>

22 </tr>

CSS (SCSS)

JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan “Dutch” Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

Tables without styling are plain & hard to read — CSS to the rescue!

empty-cells

Determines if *borders & backgrounds* are drawn on *empty cells* or not

CSS property applied to `<th>` & `<td>`

Values

- » `show`: draw borders & backgrounds (default)
- » `hide`: do not draw borders & backgrounds

HTML

```
1 <table>
2   <thead>
3     <tr>
4       <td></td> <!-- empty cell -->
5       <th>Header 1.2</th>
6       <th>Header 1.3</th>
7     </tr>
8   </thead>
9   <tbody>
10    <tr>
11      <th>Header 2.1</th>
12      <td>Data 2.2</td>
13      <td>Data 2.3</td>
14    </tr>
15    <tr>
16      <th>Header 3.1</th>
17      <td>Data 3.2</td>
18      <td>Data 3.3</td>
19    </tr>
20  </tbody>
21  <tfoot>
22    <tr>
23      <td></td> <!-- empty cell -->
24      <th>Footer 4.2</th>
25      <th>Footer 4.3</th>
26    </tr>
27  </tfoot>
```

CSS

JS

	Header 1.2	Header 1.3
Header 2.1	Data 2.2	Data 2.3
Header 3.1	Data 3.2	Data 3.3
	Footer 4.2	Footer 4.3

Default empty cells

HTML

```
1 <table>
2   <thead>
3     <tr>
4       <td></td> <!-- empty cell -->
5       <th>Header 1.2</th>
6       <th>Header 1.3</th>
7     </tr>
8   </thead>
9   <tbody>
10    <tr>
11      <th>Header 2.1</th>
12      <td>Data 2.2</td>
13      <td>Data 2.3</td>
14    </tr>
15  </tbody>
```

CSS

```
1 th, td {
2   border: 1px solid black;
3   background: yellow;
4   empty-cells: hide;
5 }
6
7 /* Uninteresting stuff below here */
8
9 table {
10  margin: 2rem;
11 }
12
```

JS

	Header 1.2	Header 1.3
Header 2.1	Data 2.2	Data 2.3
Header 3.1	Data 3.2	Data 3.3
	Footer 4.2	Footer 4.3

`border-collapse`

Specifies *table's border model*

CSS property applied to `<table>`

Values

- » `separate`: each cell has its own borders (default)
- » `collapse`: adjacent cells share borders


```
HTML
24 <h3>Table with <code>border-collapse:
    collapse</code></h3>
25
26 <table class="collapse">
27   <tr>
28     <td></td> <!-- empty cell -->
29     <th>Header 1.2</th>
30     <th>Header 1.3</th>
31     <th>Header 1.4</th>
32   </tr>
33   <tr>
34     <th>Header 2.1</th>
35     <td>Data 2.2</td>
36     <td>Data 2.3</td>
37     <td>Data 2.4</td>
38   </tr>
39   <tr>
40     <th>Header 3.1</th>
41     <td>Data 3.2</td>
42     <td>Data 3.3</td>
43     <td>Data 3.4</td>
44   </tr>
45 </table>
46
CSS
1 table.collapse {
2   border-collapse: collapse;
3   /* adjacent cells share borders */
4 }
5
6 /* Uninteresting stuff below here */
7
8 html {
9   font-size: 24px;
10  font-family: "Iowan Old Style",
    Georgia, serif;
11 }
12
JS
```

Normal Table (**border-collapse: separate**)

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

Table with **border-collapse: collapse**

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

border-spacing

Specifies *distance between adjacent cells* if **border-collapse: separate** is active

CSS property applied to **<table>**

Values

- » **<length>**: both horizontal & vertical spacings between cells
- » **<horizontal> <vertical>**: horizontal spacing between cells in adjacent columns & vertical spacing between cells in adjacent rows

⚙ HTML

47

<h3>Table with `border-spacing: 2px 8px`</h3>

48

49 <table class="spacing-hor-vert">

50 <tr>

51 <td></td> <!-- empty cell -->

52 <th>Header 1.2</th>

53 <th>Header 1.3</th>

54 <th>Header 1.4</th>

55 </tr>

56 <tr>

57 <th>Header 2.1</th>

58 <td>Data 2.2</td>

59 <td>Data 2.3</td>

⚙ CSS

1 table.spacing {

2 border-spacing: 8px; /* space between separate borders */

3 }

4

5 table.spacing-hor-vert {

6 border-spacing: 2px 8px; /* space between separate borders */

7 }

8

9 table {

10 margin: 1rem;

⚙ JS

Normal Table

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

Table with border-spacing: 8px

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

Table with border-spacing: 2px 8px

	Header 1.2	Header 1.3	Header 1.4
Header 2.1	Data 2.2	Data 2.3	Data 2.4
Header 3.1	Data 3.2	Data 3.3	Data 3.4

table-layout

Defines if *widths of table cells, rows, & columns* are determined by content or fixed

Values

- » **auto**: width are automatically determined by content (default)
- » **fixed**: widths are set by the widths of `<table>` and `<col>` or by the widths of the first row of cells (all set in CSS)

⚙️ HTML

1

<table>

2

<thead>

3

<tr>

4

<th>Movie</th>

5

<th>Genre</th>

6

<th>Hero</th>

7

<th>Year</th>

8

</tr>

9

</thead>

10

<tbody>

11

<tr>

12

<td>Die Hard</td>

13

<td>Action</td>

14

<td>John McClane</td>

15

<td>1988</td>

16

</tr>

17

<tr>

18

<td>Star Wars</td>

19

<td>Sci-Fi</td>

20

<td>Luke Skywalker</td>

21

<td>1977</td>

⚙️ CSS (SCSS)

Compiled

1

table {

2

table-layout: auto;

3

width: 100%;

4

}

⚙️ JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan “Dutch” Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

HTML

1<table>

2<thead>

3<tr>

4<th>Movie</th>

5<th>Genre</th>

6<th>Hero</th>

7<th>Year</th>

8</tr>

9</thead>

10<tbody>

11<tr>

12<td>Die Hard</td>

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17<tr>

18<td>Star Wars</td>

19<td>Sci-Fi</td>

20<td>Luke Skywalker</td>

21<td>1977</td>

CSS (SCSS)Compiled

1table {

2table-layout: fixed;

3width: 100%;

4}

JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan “Dutch” Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

Columns

<colgroup>

<col>

`<colgroup>`

Defines a *group of columns* in a table

Only permitted descendant is `<col>`

Must appear after `<caption>`

Must appear before `<thead>`, `<tbody>`, `<tfoot>`, `<tr>`,
& `<th>`

`<col>`

Defines a *column* in a table

Only permitted CSS properties:

» `background`

» `width`

» `visibility: collapse` (but don't use it)

Therefore, it's pretty useless!

HTML

```
1 <table>
2   <caption>Table Name</caption>
3   <colgroup class="hot">
4     <col>
5     <col span="2">
6   </colgroup>
7   <col class="cold">
8   <thead>
9     <tr>
10      <td></td> <!-- empty cell -->
11      <th colspan="2">Header 1.2-3</th>
12      <th>Header 1.4</th>
13    </tr>
14  </thead>
15  <tbody>
```

CSS

```
1 .hot {
2   background: coral;
3 }
4
5 .cold {
6   background: lightskyblue;
7   width: 200px;
8 }
9
10 /* Uninteresting stuff below here */
11
12 table {
```

JS

Table Name			
	Header 1.2-3		Header 1.4
Header 2-3.1	Data 2.2	Data 2.3	Data 2.4
	Data 3.2	Data 3.3	Data 3.4
	Footer 4.2	Footer 4.3	Footer 4.4

Sortable Columns

Not built into HTML or CSS

`sortable` was an attribute for `<table>` in 2014, but as of July 2020 it's gone due to lack of browser implementation

Need to use your framework or your own code

“Sorting Tables with CSS & jQuery”

www.granneman.com/webdev/coding/css/sorting-tables/

For Chromium-based browsers & Firefox, the Table Capture extension lets you easily export a table from a webpage as Microsoft Excel, CSV, Google Sheets, Markdown, & more

Then you can sort, slice, & dice however you'd like

My Trainings

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Upcoming Trainings

Past Trainings




Date	Time	Title	Registrants	
Jul 13, 2020	9:00 AM CDT	 [US Air Force] HTML & CSS to Resp... (Meets 5 Times)	6	In Session
Jul 13, 2020	6:00 PM CDT	 Introduction to OpenDDS with C++... (Meets 2 Times)	1	Start
Jul 22, 2020	9:00 AM CDT	 OpenDDS Programming with C++ a... (Meets 2 Times)	0	Start



Table Capture extension on Firefox



Before you capture:

Use the buttons below to find the page element that wraps all the repeating elements of your table or list-like content.

Select parent element

Select child element

Preview Data · Rows: 4, Columns: 1 [Break columns](#)

Date

Time

Title

Registrants



CSV



Settings 

Ignore image + icon attributes

Delete empty rows

Ignore hidden elements

Striped Rows

Old School

⚙ HTML ▾

1 ▾

<table>

2 ▾

<thead>

3 ▾

<tr>↔</tr>

9

</thead>

10 ▾

<tbody>

11 ▾

<tr class="odd">

12 ▾

<td>Die Hard</td>

13 ▾

<td>Action</td>

14 ▾

<td>John McClane</td>

15 ▾

<td>1988</td>

16

</tr>

17 ▾

<tr class="even">

18 ▾

<td>Star Wars</td>

19 ▾

<td>Sci-Fi</td>

20 ▾

<td>Luke Skywalker</td>

21 ▾

<td>1977</td>

22

</tr>

23 ▾

<tr class="odd">↔</tr>

29 ▾

<tr class="even">↔</tr>

35 ▾

<tr class="odd">↔</tr>

41 ▾

<tr class="even">↔</tr>

47 ▾

<tr class="odd">↔</tr>

⚙ CSS ▾

⚙ JS ▾

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan “Dutch” Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

All those classes! 🤯

HTML

CSS

1

thead {

2

background-color: HSL(200, 5%, 12%);

3

color: HSL(0, 0%, 96%);

4

}

5

6

.odd {

7

background-color: HSL(60, 96%, 79%);

8

}

9

10

.even {

11

background-color: HSL(36, 99%, 64%);

12

}

13

14

/* Uninteresting stuff below here */

15

16

html {

17

font-size: 24px;

18

font-family: "Iowan Old Style",

Georgia, serif;

19

}

20

21

th {

JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan “Dutch” Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

Modern CSS

HTML

1

<table class="movies">

2

<thead>

3

<tr>

4

<th>Movie</th>

5

<th>Genre</th>

6

<th>Hero</th>

7

<th>Year</th>

8

</tr>

9

</thead>

10

<tbody>

11

<tr>

12

<td>Die Hard</td>

13

<td>Action</td>

14

<td>John McClane</td>

15

<td>1988</td>

16

</tr>

17

<tr>

18

<td>Star Wars</td>

19

<td>Sci-Fi</td>

20

<td>Luke Skywalker</td>

21

<td>1977</td>

22

</tr>

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan “Dutch” Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

No classes! 🥰

CSS (SCSS)

JS

HTML

1

<table class="movies">

2

<thead>

3

<tr>

4

<th>Movie</th>

5

<th>Genre</th>

CSS (SCSS)

1

.movies {

2

thead {

3

background-color: HSL(200, 5%, 12%);

4

color: HSL(0, 0%, 96%);

5

}

6

tbody {

7

tr {

8

&:nth-child(odd) {

9

background-color: HSL(60, 96%, 79%);

10

}

11

&:nth-child(even) {

12

background-color: HSL(36, 99%, 64%);

13

}

14

}

15

}

16

}

17

JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan "Dutch" Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

HTML

1

<table class="movies">

2

<thead>

3

<tr>

4

<th>Movie</th>

5

<th>Genre</th>

CSS

Compiled

1

.movies thead {

2

background-color: HSL(200, 5%, 12%);

3

color: HSL(0, 0%, 96%);

4

}

5

.movies tbody tr:nth-child(odd) {

6

background-color: HSL(60, 96%, 79%);

7

}

8

.movies tbody tr:nth-child(even) {

9

background-color: HSL(36, 99%, 64%);

10

}

11

12

/* Uninteresting stuff below here */

13

html {

14

font-size: 24px;

15

font-family: "Iowan Old Style", Georgia,

16

serif;

16

}

JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan "Dutch" Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

Bootstrap

HTML

1

<table class="table table-striped">

2

<thead>

3

<tr>

4

<th>Movie</th>

5

<th>Genre</th>

6

<th>Hero</th>

7

<th>Year</th>

8

</tr>

9

</thead>

10

<tbody>

11

<tr>

12

<td>Die Hard</td>

13

<td>Action</td>

14

<td>John McClane</td>

15

<td>1988</td>

16

</tr>

17

<tr>

CSS (SCSS)

1

/* Uninteresting stuff below here */

2

3

html {

4

font-size: 24px;

5

}

JS

Movie	Genre	Hero	Year
Die Hard	Action	John McClane	1988
Star Wars	Sci-Fi	Luke Skywalker	1977
John Wick	Action	John Wick	2014
Predator	Action	Major Alan "Dutch" Schaefer	1987
Terminator 2	Action	T-800 Model 101	1991
Halloween	Horror	Laurie Strode	1978
Total Recall	Action	Douglas Quaid/Hauser	1990
Aliens	Action	Ellen Ripley	1986

Creating Tables

Creating tables by hand is tedious & error-prone

Be lazy! There are easy ways to generate the initial
`<table>` code

CSSTableGenerator

The **CSS Table Generator** tool was written for creating a stylish table without use of images. To create pure CSS table, use the controls below. After designing the desired table, copy the CSS and HTML code from the textboxes below. For more CSS tools visit [CSS Generators](#) website. **Not sure how to implement the code in your website? download an example [here](#).**

Table Settings

CSS Class Name:

Cells Padding: 7px

Border Radius: 0px

Info Cells Alignment:

Left

Border Color:

☒ Box Shadow

Background Settings

Title Row Type:

Gradient

Solid

Title Row Colors:

Information Rows Type:

Gradient

Solid

Two Colors


Rows Colors:

Live Table Preview

Title 1	Title 2	Title 3
Row 1	Row 1	Row 1
Row 2	Row 2	Row 2
Row 2	Row 2	Row 2



File ▾ Edit ▾ Table ▾ Column ▾ Row ▾ Cell ▾ Help ▾

   **B** *I* U Arial 10px

Theme

☐ A

1

Generate

www.tablesgenerator.com/html_tables☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

Preview

Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4   overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6   font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-0pky{border-color:inherit;text-align:left;vertical-align:top}
8 </style>
9 <table class="tg">
10 <thead>
11   <tr>
12     <th class="tg-0pky"></th>
13   </tr>
14 </thead>
15 </table>
```




File ▾

Edit ▾

Table ▾

Column ▾

Row ▾

Cell ▾

Help ▾



Generate

☐ Do not generate CSS

Result (click "Generate" to refresh)

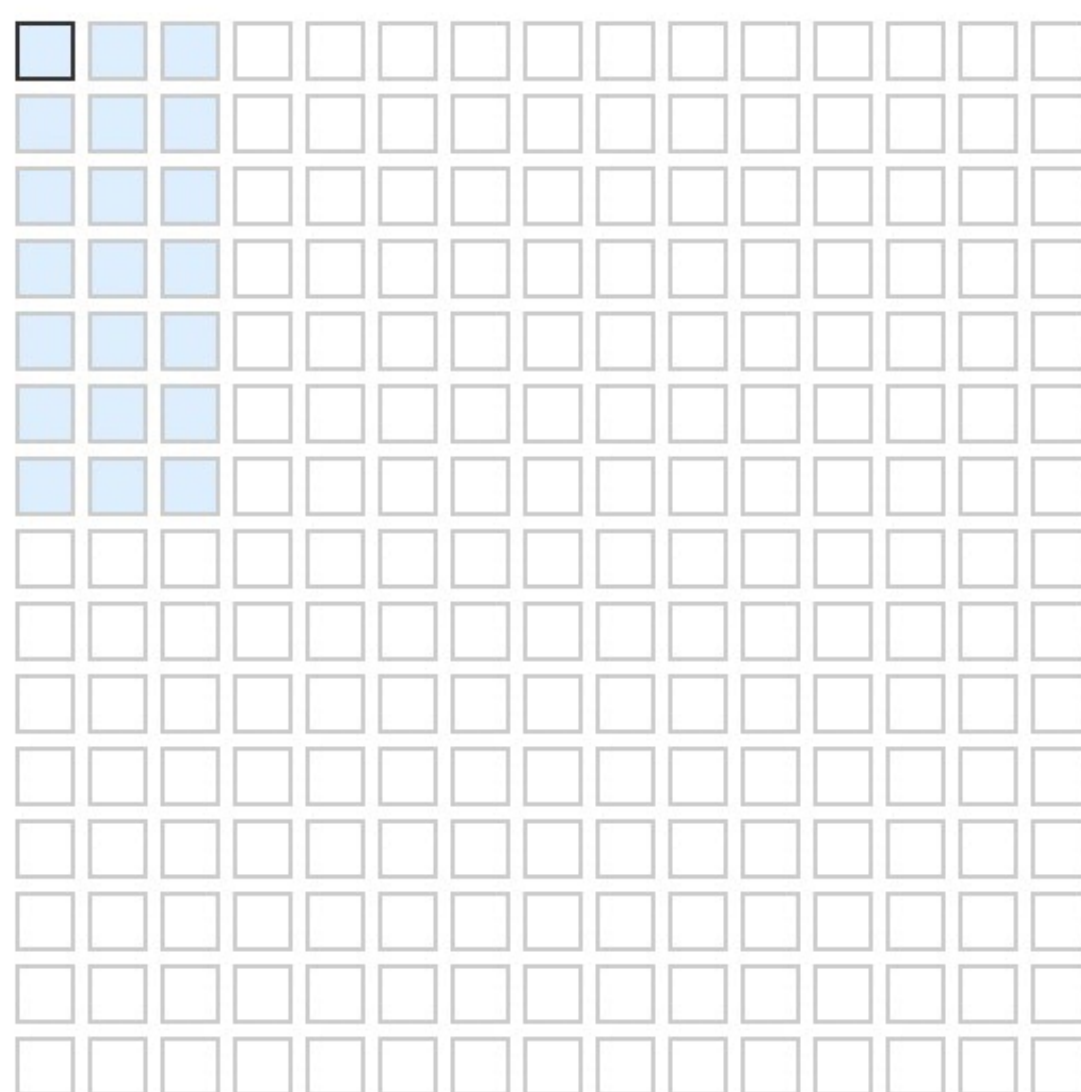
```
1 <style type="text/css">
2 .tg {border-collapse:collapse
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4     overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6     font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-0pky{border-color:inherit;text-align:left;vertical-align:top}
8 </style>
9 <table class="tg">
10 <thead>
11   <tr>
12     <th class="tg-0pky"></th>
13   </tr>
14 </thead>
15 </table>
```

Set size ▸

☐ Clear table☐ Clear formatting

Transpose table

Cell spacing ▸



7 x 3



Theme

Preview

Copy to clipboard



File ▾ Edit ▾ Table ▾ Column ▾ Row ▾ Cell ▾ Help ▾

 **B** *I* U Arial 10px

Theme



A

B

C

1

2

3

4

5

6

7

Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

Preview

Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4   overflow:hidden;padding:10px 5px;word-break:normal;}
```



File ▾ Edit ▾ Table ▾ Column ▾ Row ▾ Cell ▾ Help ▾

**B***I*U

Serif font (generic) ▾

Default font size ▾



Theme

☐

A

B

C

1

Writer

Creation

Publication

2



3

4

5

6

7

Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)




Preview

Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4   overflow:hidden;padding:10px 5px;word-break:normal;}
```




File ▾ Edit ▾ Table ▾ Column ▾ Row ▾ Cell ▾ Help ▾

   **B** *I* U Arial 10px

Theme



A

B

C

1

Writer

Creation

Publisher

2

Lovecraft

Cthulhu

Weird Tables

3

Burroughs

Tarzan of the Apes

All-Story Magazine

4

Dent

Doc Savage

Doc Savage Magazine

5

Haggard

Allan Quatermain

Novel

6

Wells

The Time Traveler

The New Review

7

Howard

Conan the Barbarian

Weird Tales

 Generate☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4   overflow:hidden;padding:10px 5px;word-break:normal;}
```


4	Dent	Doc Savage	Doc Savage Magazine
5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

 Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview

 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-style:solid;border-width:0px;font-family:Arial, sans-serif;font-size:14px;overflow:hidden;
4 padding:10px 5px;word-break:normal;}
5 .tg th{border-style:solid;border-width:0px;font-family:Arial, sans-serif;font-size:14px;font-weight:normal;
6 overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-0lax{text-align:left;vertical-align:top}
8 </style>
9 <table class="tg">
10 <thead>
11 <tr>
12 <th class="tg-0lax">Writer</th>
13 <th class="tg-0lax">Creation</th>
14 <th class="tg-0lax">Publisher</th>
15 </tr>
16 </thead>
17 <tbody>
18 <tr>
```

We don't need all that CSS!

4	Dent	Doc Savage	Doc Savage Magazine
5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Generate

☒ Do not generate CSS ☐ Compact mode

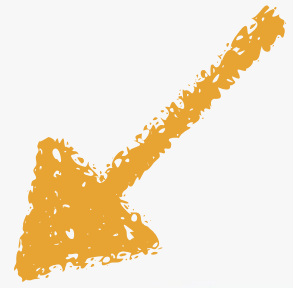
Result (click "Generate" to refresh)

Preview

Copy to clipboard

```
1 <table>
2 <thead>
3   <tr>
4     <th>Writer</th>
5     <th>Creation</th>
6     <th>Publisher</th>
7   </tr>
8 </thead>
9 <tbody>
10  <tr>
11    <td>Lovecraft</td>
12    <td>Cthulhu</td>
13    <td>Weird Tables</td>
14  </tr>
15  <tr>
16    <td>Burroughs</td>
17    <td>Tarzan of the Apes</td>
18    <td>All-Story Magazine</td>
```

Table preview		
about:blank		
Writer	Creation	Publisher
Lovecraft	Cthulhu	Weird Tables
Burroughs	Tarzan of the Apes	All-Story Magazine
Dent	Doc Savage	Doc Savage Magazine
Haggard	Allan Quatermain	Novel
Wells	The Time Traveler	The New Review
Howard	Conan the Barbarian	Weird Tales



Preview

Copy to clipboard

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

 Generate

☒ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview

 Copy to clipboard

```
1 <table>
2 <thead>
3   <tr>
4     <th>Writer</th>
5     <th>Creation</th>
6     <th>Publisher</th>
7   </tr>
8 </thead>
```

Layout

Center table horizontally

Make table responsive ?

Other

First row is a table header ✓

Enable table sorting ?

Keep header visible when scrolling the table

First row is a table header ▲

Responsive table

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

 Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview

 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4   overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6   font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-0pky{border-color:inherit;text-align:left;vertical-align:top}
8 @media screen and (max-width: 767px) {.tg {width: auto !important;}.tg col {width: auto !important;}.tg-wrap {overflow-x: auto;-webkit-
```

Layout

Center table horizontally

Make table responsive ?



Other

First row is a table header



Enable table sorting ?

Keep header visible when scrolling the table

Make table responsive ?, First row is a t ▲

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

 Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview

 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4     overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6     font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-0pky{border-color:inherit;text-align:left;vertical-align:top}
8 .tg-sort-header::-moz-selection{background:0 0}
   :0 0}.tg-sort-header{cursor:pointer}
   t:right;margin-top:7px;border-width:0 5px 5px;border-style:solid;
   sibility:hidden}
   y:visible}
   :after,.tg-sort-desc:after{visibility:visible;opacity:.4}
   e;border-width:5px 5px 0}</style>
```

Layout

Center table horizontally

Make table responsive ?

Other

First row is a table header ✓

Enable table sorting ? ✓

Keep header visible when scrolling the table

First row is a table header, Enable table sc ▲

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Table sorting enabled

⚙️ Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

👁 Preview

📄 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4     overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6     font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-0pky{border-color:inherit;text-align:left;vertical-align:top}
8 .tg-sort-header::-moz-selection{background:0 0}
9 .tg-sort-header::selection{background:0 0}.tg-sort-header{cursor:pointer}
10 .tg-sort-header:after{content:'';float:right;margin-top:7px;border-width:0 5px 5px;border-style:solid;
11     border-color:#404040 transparent;visibility:hidden}
12 .tg-sort-header:hover:after{visibility:visible}
13 .tg-sort-asc:after,.tg-sort-asc:hover:after,.tg-sort-desc:after{visibility:visible;opacity:.4}
14 .tg-sort-desc:after{border-bottom:none;border-width:5px 5px 0}</style>
15 <table id="tg-lmNmb" class="tg">
16 <thead>
17     <tr>
18         <th class="tg-0pky">Writer</th>
```

First row is a table header, Enable table sc ▲

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

 Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview

 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4     overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6     font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-j1i3{border-color:inherit;position:-webkit-sticky;position:sticky;text-align:left;top:-1px;vertical-align:top;
8     will-change:transform}
9 .tg .tg-j1i3{border-color:inherit;position:-webkit-sticky;position:sticky;text-align:left;vertical-align:top}
```

Layout

Center table horizontally

Make table responsive 

Other

First row is a table header 

Enable table sorting 

Keep header visible when scrolling the table 

First row is a table header, Keep header vi 

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Keep header visible

⚙️ Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

👁 Preview

📄 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4     overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6     font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-j1i3{border-color:inherit;position:-webkit-sticky;position:sticky;text-align:left;top:-1px;vertical-align:top;
8     will-change:transform}
9 .tg .tg-0pky{border-color:inherit;text-align:left;vertical-align:top}
10 </style>
11 <table class="tg">
12 <thead>
13   <tr>
14     <th class="tg-j1i3">Writer</th>
15     <th class="tg-j1i3">Creation</th>
16     <th class="tg-j1i3">Publisher</th>
17   </tr>
18 </thead>
```

First row is a table header, Keep header vi ▲

5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

⚙️ Generate

☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

👁 Preview

📄 Copy to clipboard

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4     overflow:hidden;padding:10px 5px;word-break:normal;}
5 .tg th{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
6     font-weight:normal;overflow:hidden;padding:10px 5px;word-break:normal;}
7 .tg .tg-j1i3{border-color:inherit;position:-webkit-sticky;position:sticky;text-align:left;top:-1px;vertical-align:top;
8     will-change:transform}
```

Layout

Center table horizontally

Make table responsive ?

Other

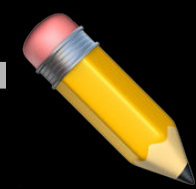
First row is a table header ✓

Enable table sorting ? ✓

Keep header visible when scrolling the table ✓

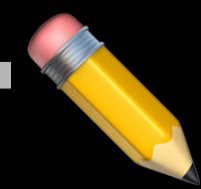
First row is a table header, Enable table sc ▲

Table sorting enabled & keep header visible



SIDE NOTE

“...a comma-separated values (CSV) file stores tabular data (numbers & text) in plain text. Each line of the file is a data record. Each record consists of one or more fields, separated by commas. ... CSV is a common data exchange format that is widely supported... Among its most common uses is moving tabular data between programs...” —Wikipedia



SIDE NOTE

Writer, Creation, Publisher

Lovecraft, Cthulhu, "Weird Tales"

Burroughs, "Tarzan of the Apes", "All-Story"

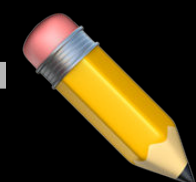
Dent, "Doc Savage", "Doc Savage Magazine"

Haggard, "Allan Quatermain", Novel

Wells, "The Time Traveler", "The New Review"

Howard, "Conan the Barbarian", "Weird Tales"

Sample CSV file



SIDE NOTE

Workbook2

Search Sheet

Home Insert Page Layout Formulas Data Review View

Paste

Calibri (Body) 20 A A

General

Conditional Formatting Format as Table Cell Styles

Insert Delete Format

Sort & Filter

N30

Import

Select the type of file you want to import:

- ☒ **CSV file**
Text files that contain comma-separated values.
- ☐ **FileMaker Pro database**
Files created with FileMaker Pro, like .fp5 or .fp7.
- ☐ **HTML file**
Hyper-text markup files from your computer.
- ☐ **Text file**
Text files, which import best when separated by tabs or spaces.

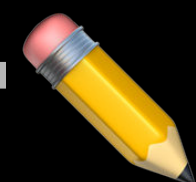
Cancel Import

Import CSV into Excel

Sheet1

Ready

100%



SIDE NOTE

Writers & Creations

Search Sheet

Home Insert Page Layout Formulas Data Review View

Paste

Calibri (Body) 20 A A

B I U

General

Conditional Formatting Format as Table Cell Styles

Insert Delete Format

Sort & Filter

L27

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Writer	Creation	Publisher											
2	Lovecraft	Cthulhu	Weird Tables											
3	Burroughs	Tarzan of the Apes	All-Story Magazine											
4	Dent	Doc Savage	Doc Savage Magazine											
5	Haggard	Allan Quatermain	Novel											
6	Wells	The Time Traveler	The New Review											
7	Howard	Conan the Barbarian	Weird Tales											
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														

Sheet1

Ready

100%





File ▾

Edit ▾

Table ▾

Column ▾

Row ▾

Cell ▾

Help ▾

New table...

Import CSV file...

Paste table data...

Save table...

Load table...

Create an example table

U

Serif font (generic) ▾

Default font size ▾



Theme

Compact mode

(Refresh)

Preview

Copy to clipboard

```
1 <table>
2 <thead>
3   <tr>
4     <th></th>
5   </tr>
6 </thead>
7 </table>
```

First row is a table header ▾

How to use it?

1. Using the *Table* menu set the desired size of the table.
2. Enter the table data into the table:

https://www.tablesgenerator.com/html_tables# from the spreadsheet (e.g. Google Docs,

Remarks

To insert the table into your website just copy & paste the generated code into your website's source. It should display fine in all modern browsers both desktop and mobile. But if you want your page to remain consistent with HTML standard,



File ▾ Edit ▾ Table ▾ Column ▾

 **B** *I* U Serif font

	A	B	C
1	Writer	Creation	Pulblication
2			
3			
4			
5			
6			
7			

 Generate☐ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

 Preview Copy to clipboardImport data from CSV file ×

You can import table data by uploading file in CSV format (Comma Separated Value). Most spreadsheet software, both desktop and online, allows to save tabular data in CSV format — it is usually available in the File menu under the name "Save As..." or "Export".

Select CSV file No file chosen

Please, ensure that the character encoding of your CSV file was set to UTF-8 otherwise some of the characters may be displayed incorrectly.

Cancel

Import

```
1 <style type="text/css">
2 .tg {border-collapse:collapse;border-spacing:0;}
3 .tg td{border-color:black;border-style:solid;border-width:1px;font-family:Arial, sans-serif;font-size:14px;
4   overflow:hidden;padding:10px 5px;word-break:normal;}
```




File Edit Table Column Row Cell Help

B*I*U

Arial

10px

Theme

☐

	A	B	C
1	Writer	Creation	Publisher
2	Lovecraft	Cthulhu	Weird Tables
3	Burroughs	Tarzan of the Apes	All-Story Magazine
4	Dent	Doc Savage	Doc Savage Magazine
5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Generate

☒ Do not generate CSS ☐ Compact mode

Result (click "Generate" to refresh)

Preview

Copy to clipboard

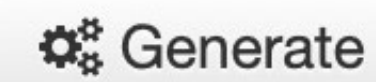
```
1 <table>
2 <thead>
3   <tr>
4     <th>Writer</th>
```




File ▾ Edit ▾ Table ▾ Column ▾ Row ▾ Cell ▾ Help ▾

Default table style ▾

<input type="checkbox"/>	A	B	C
1	Writer	Creation	Publisher
2	Lovecraft	Cthulhu	Weird Tables
3	Burroughs	Tarzan of the Apes	All-Story Magazine
4	Dent	Doc Savage	Doc Savage Magazine
5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Generate

Result (click "Generate" to refresh)

Copy to clipboard

```
1 \begin{table}[]
2 \begin{tabular}{lll}
3 Writer      & Creation      & Publisher      \\
4 Lovecraft  & Cthulhu      & Weird Tables   \\
5 Burroughs  & Tarzan of the Apes & All-Story Magazine \\
6 Dent       & Doc Savage    & Doc Savage Magazine \\
7
```




☐

A

B

C

1

Writer

Creation

Publisher

2

Lovecraft

Cthulhu

Weird Tables

3

Burroughs

Tarzan of the Apes

All-Story Magazine

4

Dent

Doc Savage

Doc Savage Magazine

5

Haggard

Allan Quatermain

Novel

6

Wells

The Time Traveler


The New Review

7

Howard

Conan the Barbarian

Weird Tales

 Generate

Result (click "Generate" to refresh)

 Copy to clipboard

1
2
3
4
5
6
7
8
9

```
+-----+-----+-----+
| Writer | Creation | Publisher |
+-----+-----+-----+
| Lovecraft | Cthulhu | Weird Tables |
+-----+-----+-----+
| Burroughs | Tarzan of the Apes | All-Story Magazine |
+-----+-----+-----+
| Dent | Doc Savage | Doc Savage Magazine |
+-----+-----+-----+
```



File ▾ Edit ▾ Table ▾ Column ▾ Row ▾ Help ▾



<input type="checkbox"/>	A	B	C
1	Writer	Creation	Publisher
2	Lovecraft	Cthulhu	Weird Tables
3	Burroughs	Tarzan of the Apes	All-Story Magazine
4	Dent	Doc Savage	Doc Savage Magazine
5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Generate

☐ Put tabs between columns ☐ Compact mode ☐ Line breaks as

Result (click "Generate" to refresh)

Preview

Copy to clipboard

```
1 | Writer      | Creation          | Publisher          |
2 | -----|-----|-----|
3 | Lovecraft | Cthulhu          | Weird Tables      |
4 | Burroughs | Tarzan of the Apes | All-Story Magazine |
5 | Dent       | Doc Savage       | Doc Savage Magazine |
```


☐

	A	B	C
1	Writer	Creation	Publisher
2	Lovecraft	Cthulhu	Weird Tables
3	Burroughs	Tarzan of the Apes	All-Story Magazine
4	Dent	Doc Savage	Doc Savage Magazine
5	Haggard	Allan Quatermain	Novel
6	Wells	The Time Traveler	The New Review
7	Howard	Conan the Barbarian	Weird Tales

Generate

Result (click "Generate" to refresh)

Copy to clipboard

```
1  {| class="wikitable"
2  |-
3  ! Writer
4  ! Creation
5  ! Publisher
6  |-
```


How about a mobile-first responsive and accessible data table?

No problem!

Getting started

Layout

Content

Reboot

Typography

Code

Images

Tables

Figures

Components

Utilities

Extend

Migration

About

Always responsive

Across every breakpoint, use `.table-responsive` for horizontally scrolling tables.

#	Heading	Heading	Heading	Heading	Heading	Heading	Heading	Heading
1	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell
2	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell
3	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell

```
<div class="table-responsive">
  <table class="table">
    ...
  </table>
</div>
```

Copy

Examples

Table head options

Striped rows

Bordered table

Borderless table

Hoverable rows

Small table

Contextual classes

Captions

Responsive tables

Always responsive

Breakpoint specific

Bootstrap's built-in solution 🤮, so we developed our own

Breakpoint specific

Getting started

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#	Heading	Heading	Heading	Heading	Heading	Heading	Heading	Heading
1	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell
2	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell
3	Cell	Cell	Cell	Cell	Cell	Cell	Cell	Cell

```
<div class="table-responsive">
  <table class="table">
    ...
  </table>
</div>
```

Copy

Examples

Table head options

Striped rows

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Small table

Contextual classes

Captions

Responsive tables

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Breakpoint specific

Bootstrap's built-in solution 🤢, so we developed our own

Breakpoint specific

HTML

1

<div class="container">

2

<table class="responsive-table">

3

<caption>Top 10 Grossing

Animated Films of All

Time</caption>

4

<thead>

5

<tr>

6

<th scope="col">Film

Title</th>

7

<th

scope="col">Released</th>

CSS (SCSS)

1

@import "bourbon";

2

3

// Breakpoints

4

\$bp-maggie: 15em;

5

\$bp-lisa: 30em;

6

\$bp-bart: 48em;

7

\$bp-marge: 62em;

8

\$bp-homer: 75em;

9

10

// Styles

11

* {

JS

Film Title	Released	Studio	Worldwide Gross	Domestic Gross	Foreign Gross	Budget
Toy Story 3	2010	Disney Pixar	\$1,063,171,911	\$415,004,880	\$648,167,031	\$200,000,000
Frozen	2013	Disney	\$1,010,014,508	\$393,614,508	\$616,400,000	\$150,000,000
The Lion King	1994	Disney	\$987,483,777	\$422,783,777	\$564,700,000	\$45,000,000
Despicable Me 2	2013	Universal	\$970,761,885	\$368,061,265	\$602,700,620	\$76,000,000
Finding Nemo	2003	Pixar	\$936,743,261	\$380,843,261	\$555,900,000	\$94,000,000
Shrek 2	2004	Dreamworks	\$919,838,758	\$441,226,247	\$478,612,511	\$150,000,000
Ice Age: Dawn of the Dinosaurs	2009	Fox	\$886,686,817	\$196,573,705	\$690,113,112	\$90,000,000
Ice Age: Continental Drift	2012	Fox	\$877,244,782	\$161,321,843	\$715,922,939	\$95,000,000
Shrek the Third	2007	Dreamworks	\$798,958,162	\$322,719,944	\$476,238,218	\$160,000,000
Shrek Forever After	2010	Dreamworks	\$752,600,867	\$238,736,787	\$513,864,080	\$165,000,000

Sources: [Wikipedia](#) & [Box Office Mojo](#). Data is current as of March 12, 2014

HTML

1

<div class="container">

2

<table class="responsive-table">

3

<caption>Top 10 Grossing Animated Films

of All Time</caption>

4

<thead>

5

<tr>

6

<th scope="col">Film Title</th>

7

<th scope="col">Released</th>

8

<th scope="col">Studio</th>

9

<th scope="col">Worldwide

Gross</th>

CSS (SCSS)

1

@import "bourbon";

2

3

// Breakpoints

4

\$bp-maggie: 15em;

5

\$bp-lisa: 30em;

6

\$bp-bart: 48em;

7

\$bp-marge: 62em;

8

\$bp-homer: 75em;

9

10

// Styles

11

* {

JS

Top 10 Grossing Animated Films of All Time	
Toy Story 3	
Released	2010
Studio	Disney Pixar
Worldwide Gross	\$1,063,171,911
Domestic Gross	\$415,004,880
Foreign Gross	\$648,167,031
Budget	\$200,000,000
Frozen	
Released	2013
Studio	Disney
Worldwide Gross	\$1,010,014,508
Domestic Gross	\$393,614,508
Foreign Gross	\$616,400,000
Budget	\$150,000,000

HTML

```
1 <table>
2   <caption>Camping Costs for Seven
   People to go camping over the
   weekend</caption>
3   <thead>
4     <tr>
5       <th>Item</th>
6       <th>Quantity</th>
7       <th>Price</th>
8       <th>Total</th>
9     </tr>
```

CSS

```
1 @media (max-width: 768px) {
2   head {
3     display: none;
4   }
5
6   tr {
7     display: block;
8     border: 1px solid gainsboro;
9     margin: 1em 0;
10    padding: 0.5em;
11  }
```

JS

CAMPING COSTS FOR SEVEN PEOPLE TO GO CAMPING OVER THE WEEKEND

Item	Quantity	Price	Total
Tent	1	\$279.00	\$279.00
Sleeping Bags	2	\$159.95	\$319.90
Camp Chairs	2	\$39.50	\$79.00

HTML

1

<table>

2

<caption>Camping Costs for Seven People to go camping over the weekend</caption>

3

<thead>

4

<tr>

5

<th>Item</th>

6

<th>Quantity</th>

7

<th>Price</th>

8

<th>Total</th>

9

</tr>

10

</thead>

CSS

1

@media (max-width: 768px) {

2

thead {

3

display: none;

4

}

5

6

tr {

7

display: block;

8

border: 1px solid gainsboro;

9

margin: 1em 0;

10

padding: 0.5em;

11

}

JS

CAMPING COSTS FOR SEVEN PEOPLE TO GO CAMPING OVER THE WEEKEND

Item: Tent

Quantity: 1

Price: \$279.00

Total: \$279.00

Item: Sleeping Bags

Quantity: 2

Price: \$159.95

Total: \$319.90

Item: Camp Chairs

Quantity: 2

Price: \$39.50

Total: \$79.00

Lists

We already covered lists when we looked at HTML
(remember ``, ``, ``, `<dl>`, `<dt>`, & `<dd>`?)

But what about CSS for lists?

Before we get to list-specific CSS, note how easy it is to manipulate lists with other CSS

Can you take a simple list and use different Cascading Style Sheets to create radically different list options? The Listamatic shows the power of CSS when applied to one simple list.

Vertical lists

- » [Simple list](#)
- » [Simple list with square bullets](#)
- » [Simple list with circle bullets](#)
- » [Using images for bullets](#)
- » [Using CSS background images for bullets](#)
- » [Eric Meyer's simple separators](#)
- » [Eric Meyer's Panelise](#)
- » [Rollover lists](#)
- » [Eric Meyer's Strengthening the links](#)
- » [A List Apart's Taming lists](#)
- » [ProjectSeven's Uberlist](#)
- » [Bieler Batiste's list](#)
- » [Vertical buttons](#)
- » [Bulleted Rollover List](#)
- » [3D Imenu in blue](#)
- » [Double Border](#)
- » [Copongcopong's Pop Pad List](#)
- » [IE HACK for "Eric Meyer's Strengthening the links"](#) - added 17 May 2005

Horizontal lists

- » [Simple horizontal list](#)
- » [Rollover horizontal list](#)
- » [Rollover horizontal list navbar](#)
- » [Eric Meyer's navbar](#)
- » [Eric Meyer's tabbed navbar](#)
- » [Simple Bits tabbed navbar](#)
- » [ProjectSeven's horizontal Uberlist](#)

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- » [Simple, accessible "more" links](#)

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- » [CSS Centering - fun for all!](#)
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- » [Colored boxes - one method](#)

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Popular articles

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- » [Webstandards Checklist](#)
- » [Colored boxes - one method](#)

Simple horizontal list

- [Item one](#)[Item two](#)[Item three](#)[Item four](#)[Item five](#)

Author: Russ Weakley

Comments: Use `display: inline;` and `list-style-type: none;` to make a basic horizontal list.

[Browser support chart](#)

HTML

```
<div id="navcontainer">
<ul id="navlist">
<li id="active"><a href="#" id="current">Item
one</a></li>
<li><a href="#">Item two</a></li>
<li><a href="#">Item three</a></li>
<li><a href="#">Item four</a></li>
<li><a href="#">Item five</a></li>
</ul>
</div>
```

CSS

```
#navlist li
{
display: inline;
list-style-type: none;
padding-right: 20px;
}
```

List Markers

`list-style-type`
`list-style-image`
`list-style-position`

`list-style`

`::marker`

`list-style-type`

CSS property that sets *appearance of `` markers*
(or any element with `display: list-item`)

Value

» `none`: removes all list item markers

HTML

1

<p><code>list-style-type:
none</code></p>

2

3

<ul class="padding">

Cthulhu

Nyarlathotep

Yog-Sothoth

8

9

<p><code>list-style-type:
none</code> &
<code>padding-left: .5em</code>
</p>

10

11

<ul class="padding-none">

Cthulhu

Nyarlathotep

Yog-Sothoth

15

CSS (SCSS)

5

.padding-none {

6

list-style-type: none;

7

padding-left: .5em;

8

}

JS

list-style-type: none

Cthulhu
Nyarlathotep
Yog-Sothoth

list-style-type: none & padding-left: .5em

Cthulhu
Nyarlathotep
Yog-Sothoth

When you remove list markers using `list-style-type: none`, you probably want to zero out or reduce `padding-left` as well

disc	●	Default
circle	○	
square	■	
none		Also for ordered lists

Values for `list-style-type` for unordered lists

`` HTML element has a `type` attribute that defines the numbering type

» `1.` (default)

» `A.`

» `a.`

» `I.`

» `i.`

However, use CSS instead

<code>decimal</code>	1. 2.	Default
<code>decimal-leading-zero</code>	01. 02.	Padded by zero
<code>upper-roman</code>	I. II.	Roman numerals
<code>lower-roman</code>	i. ii.	Roman numerals
<code>upper-alpha</code>	A. B.	
<code>lower-alpha</code>	a. b.	
<code>lower-greek</code>	α. β.	Classical Greek

Values for `list-style-type` for ordered lists

arabic-indic • armenian • bengali • cambodian • cjk-decimal •
cjk-earthly-branch • cjk-heavenly-stem • cjk-ideographic •
devanagari • ethiopic-numeric • georgian • gujarati •
gurmukhi • hebrew • hiragana • hiragana-iroha • japanese-
formal • japanese-informal • kannada • katakana • katakana-
iroha • khmer • korean-hangul-formal • korean-hanja-formal •
korean-hanja-informal • lao • lower-armenian • malayalam •
mongolian • myanmar • oriya • persian • simp-chinese-formal •
simp-chinese-informal • tamil • telugu • thai • tibetan • trad-
chinese-formal • trad-chinese-informal • upper-armenian

Many other values for ordered lists — but different browsers
support different values!

⚙ HTML

⚙ CSS

```
1  /* Move the CSS declaration you want to test
   to the end of its declaration block */
2
3  ul {
4      list-style-type: disc;
5      list-style-type: circle;
6      list-style-type: square;
7  }
8
9  ol {
10     list-style-type: decimal;
11     list-style-type: decimal-leading-zero;
12     list-style-type: upper-roman;
13     list-style-type: lower-roman;
14     list-style-type: upper-alpha;
15     list-style-type: lower-alpha;
16     list-style-type: lower-greek;
17 }
18
19 /* Uninteresting stuff below here */
20
21 html {
22     font-size: 24px;
23 }
```

⚙ JS

- Cthugha
- Cthulhu
- Tsathoggua

α. Collect Underpants

β. ???

γ. Profit!

This is a list playground, so visit the page (see Notes for URL) & re-order the declarations

`list-style-image`

CSS property that replaces the list item marker with an image

Values

- » `none`: no image is used (default)
- » `<url>`: location of image to use as list item marker

⚙ HTML



```
1 <ul>
2   <li>Facts Concerning the Late Arthur Jermyn and His
    Family</li>
3   <li>Old Bugs: An Extemporaneous Sob Story by Marcus
    Lollius, Proconsul of Gaul</li>
4   <li>The Secret Cave or John Lees Adventure</li>
5 </ul>
```




⚙ CSS



```
1 ul {
2   list-style-image: url(http://placeholder.it/20x20);
3 }
4
5 /* Uninteresting stuff below here */
6
7 html {
8   font-size: 24px;
9   font-family: "Iowan Old Style", Georgia, serif;
10 }
```

⚙ JS



-  Facts Concerning the Late Arthur Jermyn and His Family
-  Old Bugs: An Extemporaneous Sob Story by Marcus Lollius, Proconsul of Gaul
-  The Secret Cave or John Lees Adventure

`list-style-position`

CSS property that sets position of the list item marker box in relation to the principal block box

Values

- » `inside`: list item marker box is inside the block box
- » `outside`: list item marker box is outside the block box (default)

List item () marker box



- Cthulhu
- 1. Tsathoggua



Principle block box

⚙ HTML



```
1 <ul class="inside">
2   <li>Facts Concerning the Late Arthur Jermyn and His
     Family</li>
3 </ul>
4
5 <ul class="outside">
6   <li>Old Bugs: An Extemporaneous Sob Story by Marcus
     Lollius, Proconsul of Gaul</li>
7 </ul>
```


⚙ CSS




```
1 .inside {
2   list-style-position: inside;
3   list-style-image: url(http://placeholder.it/25x25);
4 }
5
6 .outside {
7   list-style-position: outside;
8   list-style-image: url(http://placeholder.it/25x25);
9 }
10
11 li {
12   background: yellow;
```

⚙ JS



 Facts Concerning the Late
Arthur Jermyn and His Family

 Old Bugs: An
Extemporaneous Sob Story by
Marcus Lollius, Proconsul of
Gaul

`list-style`

Shorthand CSS property for setting `list-style-type`,
`list-style-image`, & `list-style-position`

1, 2, or 3 values can be in any order

⚙ HTML



```
1 <ul class="inside">
2   <li>Facts Concerning the Late Arthur Jermyn and His
     Family</li>
3 </ul>
4
5 <ul class="outside">
6   <li>Old Bugs: An Extemporaneous Sob Story by Marcus
     Lollius, Proconsul of Gaul</li>
7 </ul>
```

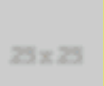
⚙ CSS




```
1 .inside {
2   list-style: inside url(http://placeholder.it/25x25);
3 }
4
5 .outside {
6   list-style: outside url(http://placeholder.it/25x25);
7 }
8
9 li {
10  background: yellow;
11  border: 1px solid black;
12  padding: 5px;
```

⚙ JS



 Facts Concerning the Late Arthur Jermyn and His Family

 Old Bugs: An Extemporaneous Sob Story by Marcus Lollius, Proconsul of Gaul

`::marker`

Selects *marker box of a list item* — typically a • or 1.

Only works with these properties:

- » `font-*`, `font`, & `line-height`
- » `color`
- » `text-combine-upright`, `unicode-bidi`, & `direction`
- » `content`


```
HTML
1 <ul>
2   <li>Abhoth</li>
3   <li>Aiueb Gnshal</li>
4   <li>Aletheia</li>
5   <li>Azathoth</li>
6   <li>Azhorra-Tha</li>
7 </ul>
8
```

```
CSS (SCSS)
1 ul li::marker {
2   color: dodgerblue;
3   content: ">";
4 }
5
6 ol > li {
7   &::marker {
8     font-family: 'Gothic A1';
9     color: navy;
10  }
11  &:nth-child(1)::marker {
12    content: "1";
13  }
14  &:nth-child(2)::marker {
15    content: "2";
16  }
17  &:nth-child(3)::marker {
```

```
JS
```

- Abhoth
- Aiueb Gnshal
- Aletheia
- Azathoth
- Azhorra-Tha

- 1 B'gnu-Thun
- 2 Bokrug
- 3 C'thalpa
- 4 Cthulhu
- 5 Cxaxukluth
- 6 D'endrrah
- 7 Dagon
- 8 Daoloth
- 9 Darkness
- 10 Deep One
- 11 Dunwich Horror
- 12 Formless Spawn
- 13 Ghatanothoa
- 14 Ghroth


```
HTML
9 <ol>
10 <li>B'gnu-Thun</li>
11 <li>Bokrug</li>
12 <li>C'thalpa</li>
13 <li>Cthulhu</li>
14 <li>Cxaxukluth</li>
15 <li>D'endrrah</li>
16 <li>Dagon</li>
```

```
CSS (SCSS)
6 ol > li {
7   &::marker {
8     font-family: 'Gothic A1';
9     color: navy;
10  }
11  &:nth-child(1)::marker {
12    content: "①";
13  }
14  &:nth-child(2)::marker {
15    content: "②";
16  }
17  &:nth-child(3)::marker {
18    content: "③";
19  }
20  &:nth-child(4)::marker {
21    content: "④";
22  }
```

```
JS
```

- Abhoth
- Aiueb Gnshal
- Aletheia
- Azathoth
- Azhorra-Tha

- ① B'gnu-Thun
- ② Bokrug
- ③ C'thalpa
- ④ Cthulhu
- ⑤ Cxaxukluth
- ⑥ D'endrrah
- ⑦ Dagon
- ⑧ Daoloth
- ⑨ Darkness
- ⑩ Deep One
- ⑪ Dunwich Horror
- ⑫ Formless Spawn
- ⑬ Ghatanothoa
- ⑭ Ghroth

List Counters


```
counter( )  
counter-reset  
counter-increment
```

```
counters( )
```

⚙ HTML



```
1 <h2>A Result and a Prologue</h2>
```

⚙ CSS



```
1 h2::before {  
2   content:"Chapter 1: ";  
3 }  
4  
5 /* Uninteresting stuff below here */  
6  
7 html {  
8   font-size: 24px;  
9   font-family: "Iowan Old Style",  
10  Georgia, serif;  
11 }
```

⚙ JS



Chapter 1: A Result and a Prologue

In *HTML - Overview* we used
`::before` to insert content

That's nice, but what if you have several chapters?

You don't want to put the chapter number in manually for each one!

Counters are CSS variables that may be incremented or decremented based on their position in the document

For a counter to work:

- » You must give the counter a unique name
- » You must use `counter()`, `counter-reset`, & `counter-increment`

`counter()`

Function that adds the value of a counter to a selected element

`counter-reset`

Resets value of a CSS counter

Defaults to `0` if value isn't specified

Given a counter named `foo` & another named `bar`...

```
/* Set foo to 0 */  
counter-reset: foo
```

```
/* Set foo to -1 */  
counter-reset: foo -1
```

```
/* Set foo to 1 & bar to 10 */  
counter-reset: foo 1 bar 10
```

`counter-increment`

Increases the value of a CSS counter by a given value

Defaults to **1** if value isn't specified

Given a counter named `foo` & another named `bar`...

```
/* Increment foo by 1 */  
counter-increment: foo
```

```
/* Decrement foo by 1 */  
counter-increment: foo -1
```

```
/* Increment foo by 1 & decrement bar by 10 */  
counter-increment: foo bar -10
```


⚙ HTML



```
1 <h2>A Result and a Prologue</h2>
2
3 <h2>An Antecedent and a Horror</h2>
4
5 <h2>A Search and an Evocation</h2>
6
7 <h2>A Mutation and a Madness</h2>
8
9 <h2>A Nightmare and a Cataclysm</h2>
```

⚙ CSS



```
1 body {
2   counter-reset: chapter;
3 }
4
5 h2::before {
6   counter-increment: chapter;
7   content: "Chapter " counter(chapter)
8   ": ";
9 }
10 /* Uninteresting stuff below here */
11
```

⚙ JS



Chapter 1: A Result and a Prologue

Chapter 2: An Antecedent and a Horror

Chapter 3: A Search and an Evocation

Chapter 4: A Mutation and a Madness

**Chapter 5: A Nightmare and a
Cataclysm**

Problem

No easy way to make ordered lists use legal numbering

1

1.1

1.2

2

2.1

Solution

`counters ()`—which is not the same as `counter ()`!

```
counters(counter-name, "<string>")
```

The `counters()` function lets you *insert a string between different levels* of nested counters

Child elements automatically create a new instance of a CSS counter



3.3 item

```

1 ol {
2   /* Creates a new instance of the legal-list counter with
   each ol element */
3   counter-reset: legal-list;
4   list-style-type: none;
5 }
6
7 li::before {
8   /* Increments each legal-list counter by 1 */
9   counter-increment: legal-list;
10  /* Adds the value of all instances of the section counter
   separated by a "." & then adds a space */
11  content: counters(legal-list, ".") " ";
12 }
13
14 /* Uninteresting stuff below here */
15
16 html {
17   font-size: 24px;
18   font-family: "Iowan Old Style", Georgia, serif;
19 }

```

1 item

2 item

2.1 item

2.2 item

2.3 item

2.3.1 item

2.3.2 item

2.3.3 item

2.4 item

3 item

3.1 item

3.2 item

3.3 item

What if you want legal numbering in front of headings?

You could nest `<section>`s inside `<section>`s, each with a heading, but that's too much work

Here's a method that just uses headings, without needing to nest them in `<section>`


```
1 <h1>Legal Numbering Using HTML Heading
  Levels</h1>
2 <p>Note: in this example, we're going to
  start with H2 for numbering.</p>
3 <h2>This is a heading two</h2>
4 <h2>This is a heading two</h2>
5 <h3>This is a heading three</h3>
6 <h3>This is a heading three</h3>
7 <h3>This is a heading three</h3>
8 <h4>This is a heading four</h4>
9 <h5>This is a heading five</h5>
10 <h6>This is a heading six</h6>
11 <h4>This is a heading four</h4>
12 <h4>This is a heading four</h4>
13 <h2>This is a heading two</h2>
14 <h3>This is a heading three</h3>
15 <h3>This is a heading three</h3>
16 <h3 class="uncounted">This is an
  UNCOUNTED heading three</h3>
17 <h3>This is a heading three</h3>
18 <h3>This is a heading three</h3>
19 <h2>This is a heading two</h2>
20 <h3>This is a heading three</h3>
21 <h3>This is a heading three</h3>
```

Legal Numbering Using HTML Heading Levels

Note: in this example, we're going to start with H2 for numbering.

1. This is a heading two

2. This is a heading two

2.1. This is a heading three

2.2. This is a heading three

2.3. This is a heading three

2.3.1. This is a heading four

⚙ HTML

⚙ CSS

1 /* body creates the h2 counter */
2 body {
3 counter-reset: heading2;
4 }
5
6 /* Insert h2 counter before h2 content
 */
7 h2::before {
8 counter-increment: heading2;
9 content: counter(heading2) ". ";
10 }
11
12 /* each h2 creates a new h3 counter */
13 h2 {
14 counter-reset: heading3;
15 }
16
17 /* Insert h2 & h3 counters before h3
 content */
18 h3::before {
19 counter-increment: heading3;
20 content:
21 counter(heading2) ". "
22 counter(heading3) ". ";
23 }
24
25 /* each h3 creates a new h4 counter */

⚙ JS

Legal Numbering Using HTML Heading Levels

Note: in this example, we're going to start with H2 for numbering.

1. This is a heading two

2. This is a heading two

2.1. This is a heading three

2.2. This is a heading three

2.3. This is a heading three

2.3.1. This is a heading four

⚙ HTML

⚙ CSS

25 /* each h3 creates a new h4 counter */
26 h3 {
27 counter-reset: heading4;
28 }
29
30 /* Insert h2, h3, & h4 counters before
 h4 content */
31 h4::before {
32 counter-increment: heading4;
33 content:
34 counter(heading2) ". "
35 counter(heading3) ". "
36 counter(heading4) ". ";
37 }
38
39 /* each h4 creates a new h5 counter */
40 h4 {counter-reset: heading5}
41 h5::before {
42 counter-increment: heading5;
43 content:
44 counter(heading2) ". "
45 counter(heading3) ". "
46 counter(heading4) ". "
47 counter(heading5) ". ";
48 }
49
50 /* each h5 creates a new h6 counter */

⚙ JS

Legal Numbering Using HTML Heading Levels

Note: in this example, we're going to start with H2 for numbering.

1. This is a heading two

2. This is a heading two

2.1. This is a heading three

2.2. This is a heading three

2.3. This is a heading three

2.3.1. This is a heading four

				ios		
counter()	8	2	3.1	3.2	4	2.1
counters()	8	2	5.1	3.2	10	2.1
counter-reset	8	2	3.1	3.2	4	2.1
counter-increment	8	2	3.1	3.2	4	2.1

Thank you!

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Tables & Lists

Organized Data

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Changelog

2021-06-11 1.9: Added slide re: `list-style-type: none`; added note re list playground at CodePen; added slide showing default tables are plain & need styles; updated theme to Granneman 1.7; fixed minor formatting issues

2020-07-22 1.8: Clarified children of `<table>`; updated all Tables Generator screenshots; updated `::marker` examples

Changelog

2020-07-13 1.7: Moved *List Counters* here from *CSS Overview*; created *List Markers* section to make smaller *Lists* section; added design pattern to *Table Title*; added lists of elements, attributes, properties, & functions where appropriate in sections; added screenshots showing what `<table>` is & is not for; added example for `::marker`; added screenshots for `table-layout`

2018-09-05 1.6: Added slides from Striped Tables deck as Striped Rows

Changelog

2018-09-04 1.5: Updated wording on `<tr>`; added lots of detail to Tables Generator; better screenshots & a short video for responsive tables; removed URL animation where I saw it

2017-06-11 1.4: Emphasized difference between required & optional children of `<table>`; switched to latest version of theme; fixed formatting; added note re: sortable columns re: lack of built-in support; added note about why to generate tables

Changelog

2015-11-04 1.3: Minor formatting fixes; switched theme to use Georgia Pro

2014-08-09 1.2: Added Listamatic

2014-08-01 1.1.2: Added deprecated & removed table attributes; more info re: `<th>`; fixed filled square that wasn't; only 1 `<caption>` per `<table>`; note for `<col>`

2014-05-15 1.1.1: Removed DejaVu Serif font!

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